Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(currently amended): A heating 1 Claim 1 apparatus comprising: 2 an infrared ray lamp including a heating element which 3 has a substantially plate shape, which is formed of a 5 linier-shaped carbon-based substance of which a_crosssection of which is a rectangular shape, and which is 6 hermetically sealed in a glass tube, and 7 a reflection plate which is disposed so as to keep a 8 predetermined distance from outside of said glass tube of 9 10 said infrared ray lamp, 11 wherein said reflection plate is disposed so that an inner reflection face of said reflection plate is opposed 12 to an arbitrary portion of said heating element, and is 13 structured such that an object to be heated is disposed in 14 the front position opposing said reflection face of said 15 16 reflection plate wherein said heating element has a width which is 17 18 larger than a thickness thereof by five times or more, and is formed of a carbon-based substance consisting at least 19 of crystallized carbon, a resistance value adjustment 20 21 substance and amorphous carbon,

wherein said reflection plate has at least a similar 22 23 length as that of the infrared ray emitting portion of said heating element, is disposed in parallel with the center 24 line in the longitudinal direction of said heating element, 25 and has a substantially arcuate shape using the center line 26 27 of said heating element as a center thereof, and wherein a reflection face of said reflection plate 28 that opposes said heating element is disposed so as to be 29 opposed to one of the wider side portions of said heating 30 element. 31

Claim 2 (canceled)

Claim 3 (currently amended): A heating apparatus in 1 accordance with claim 1 comprising: 2 an infrared ray lamp including a heating element which 3 has a substantially plate shape, of which cross-section is 4 a rectangular shape, and which is hermetically sealed in a 5 glass tube, and 6 a reflection plate which is disposed so as to keep a 7 predetermined distance from outside of said glass tube of 8 said infrared ray lamp, 9 wherein said heating element has a width which is 10 larger than a thickness thereof by five times or more, and 11 is formed of a carbon-based substance consisting at least 12 of crystallized carbon, a resistance value adjustment 13

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14 substance and amorphous carbon,

wherein said reflection plate has at least a similar length as that of the infrared ray emitting portion of said heating element, is disposed in parallel with the center line in the longitudinal direction of said heating element, and has a substantially arcuate shape using the center line of said heating element as a center thereof, and

wherein the reflection face of said reflection plate that opposes said heating element is disposed so as to be that an inner reflection face of said reflection plate is opposed to one of the narrower side portions of said heating element.

Claim 4 (currently amended): A heating apparatus in accordance with any one of claims 1 to 3 claim 1 or 3, wherein said reflection plate provided in said heating apparatus is disposed substantially in parallel with the longitudinal direction of said heating element disposed in front of said reflection plate, and such that the end portions in the longitudinal direction of said heating element are arranged in a substantially straight line with said heating element or said glass tube interposed having a substantially arcuate shape is disposed so that both ends of said reflection pate in a direction orthogonal to the longitudinal direction thereof is arranged on a plane including the center line of said heating element.

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- Claim 5 (currently amended): A heating apparatus in accordance with any one of claims 1 to 3 claim 1 or 3 wherein a cross-section of said reflection plate has a substantially arcuate shape formed of a combination of plural straight lines, such as a part of a polygon.
 - Claim 6 (currently amended): A heating apparatus in accordance with any one of claims 1 to 3 claim 1 or 3 wherein said reflection plate is configured so as to reflect radiant heat from said heating element and diffuse [[a]] the radiant heat to the front of said infrared ray lamp to the front.

Claims 7-38 (canceled)